

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,861	09/12/2003	Feng Chen	TI-35764 (032350.B522) 8973	
23494 7590 04/21/2004			EXAMINER	
	TRUMENTS INCOR	NGUYEN, LINH V		
	P O BOX 655474, M/S 3999 DALLAS, TX 75265		ART UNIT	PAPER NUMBER
DALLAS, 1.	A 73203		2819	
		DATE MAILED: 04/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

			*			
T		Application No.	Applicant(s)			
Office Action Summary		10/661,861	CHEN ET AL.			
		Examiner	Art Unit			
		Linh V Nguyen	2819			
Peri d f	The MAILING DATE of this communication aport	pears on the cover sheet with the	correspondence address			
A SH THE - Exte after - If th - If NO - Failt Any	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rej to period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) d d will apply and will expire SIX (6) MONTHS fro te, cause the application to become ABANDON	timely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 123	September 2003.				
•	This action is FINAL . 2b)⊠ This action is non-final.					
3)□						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
4)⊠	Claim(s) <u>1-20</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)🖂	Claim(s) <u>20</u> is/are allowed.					
6)⊠	Claim(s) <u>1-3,6,8-12,15 and 17-19</u> is/are rejected.					
7)🛛	Claim(s) <u>4,5,7,13,14 and 16</u> is/are objected to.					
8)[Claim(s) are subject to restriction and/or election requirement.					
Applicat	tion Papers					
9) 🗌	The specification is objected to by the Examin	er.				
10)🖂	☑ The drawing(s) filed on <u>09 December 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by the E	Examiner. Note the attached Office	ce Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea See the attached detailed Office action for a lis	nts have been received. nts have been received in Applica ority documents have been receiv au (PCT Rule 17.2(a)).	ation No ved in this National Stage			
Attachmer	• •	_				
	ce of References Cited (PTO-892)	4) Interview Summa Paper No(s)/Mail l				
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date <u>09/12/03</u> .	_	Patent Application (PTO-152)			

Art Unit: 2819

Claim R jections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1 - 3, 6, 8 -12, 15 and 17-19, are rejected under 35 U.S.C. 102(e) as being anticipated by Gulati et al. U.S. Patent No. 6,686,860.

Regarding to claims 1, 10 and 19, Fig. 1 of Gulati et al. disclose a system for configuring an analog-to-digital converter (Fig. 1 [100]) Col. 5 line 66), comprising: receiving a control signal (output signal of Fig. 1[102], Col. 6 line 46), and an input analog signal (Fig. 1[AIN]) at an analog-to-digital converter (Fig. 1[100]), the control signal having a state selected from a group consisting of a first state and a second state (Col. 6 lines 5 – 8), the first state associated with a first configuration, the second state associated with a second configuration (Col. 6 lines 11 – 17), the input analog signal comprising information; performing the following if the control signal has the first state: configuring the analog-to-digital-converter in the first configuration response to the control signal; and generating a digital signal comprising a first digital signal according to a pipeline conversion (Col. 6 lines 1-25); performing the following if the control signal has the second state: configuring the analog-to-digital converter in the second configuration in response to the control signal; and generating the digital signal comprising a second digital signal according to a multi-stage sigma delta modulation conversion; and processing the digital signal to yield a digital output, the digital output comprising the information (Col. 6 lines 1 - 25).

Application/Control Number: 10/661,861

Art Unit: 2819

Regarding to claims 2 and 11, wherein the first configuration comprises a pipeline analog-to-digital converter configuration (Col. 7 lines 20 – 23, and Fig. 4).

Regarding to claims 3 and 12, wherein the second configuration comprises a multi-stage noise shaping analog-to-digital converter configuration (Col. 7 lines 26 – 30, and Fig. 3).

Regarding to claims 6 and 15, wherein processing the digital signal yield the digital output further comprises: decoding the digital signal by performing error correction of the digital signal; and generating a binary code corresponding the decoded digital signal, the binary code comprising the information (Col. 6 lines 18 – 25).

Regarding to claims 8, 9, 17 and 18 wherein the first state is a low state control signal (pipeline mode), and the second state is a high state control signal (Sigma-delta mode).

Allowable Subject Matter

- 2. Claims 4, 5, 7, 13, 14 and 16, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. Claim 20 is allowed.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

Application/Control Number: 10/661,861 Page 4

Art Unit: 2819

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Tokar can be reached at (571) 272-1812. The fax phone numbers for the organization where this application or proceeding is assigned are (703-872-9306) for regular communications and (703-872-9306) for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

LVN

04/9/2004

Michael Tchar Gupervisory Potent Examiner Technology Center 2800

Michael S. Tokan